

Describing and Explaining

Pat Thompson
RUME 1, Sept 18, 2018

Lessons I Learned from Reading Your Essays

- Give you more information about the context of O&B 1
- Give clearer directions about how I hope you approach your analysis (not sure about this one — let's talk)
-

Describing and Explaining

Ann used guess and test when asked for a speed given a number of seconds to go over and back because she was thinking of what speed-length she would need to fit into 100 (or 200) feet that number of times.

Ann used guess and test when asked for a speed given a number of seconds to go over and back because she did not understand that speed is a ratio of distance and time.

Describing and Explaining

Ann used guess and test when asked for a speed given a number of seconds to go over and back because she was thinking of what speed-length she would need to go into 100 (or 200) feet that number of times.

Positive Description

Ann used guess and test when asked for a speed given a number of seconds to go over and back because she did not understand that speed is a ratio of distance to time.

Negative Description

While negative descriptions might be true, they rarely explain why it would be reasonable that someone would do what he or she did.

Describing and Explaining

Bill first asked Ann to determine how long it would take the turtle to run over if he was traveling at a constant speed of forty feet per second. Ann was able to correctly determine that the answer was 2.5, but when Bill asked her what the 2.5 represented, she answered that it represented forty (a distance) (9:50 line 9).

This answer provides more evidence that Ann does not understand what the quantities are that she is using.

Negative description

Positive description?

Passive and Active Voice

Keeping It Straight When Speaking for Others

Constant Speed

To you: Constant rate of change of distance with respect to time.
Changes in distance are proportional to changes in time.
Time varies continuously (smoothly).

Distance (from reference point) = speed (elapsed time - reference time) + initial distance from reference point

To Ann: Distance-traveled-in-one-time-unit

Keeping It Straight When Speaking for Others

Constant Speed

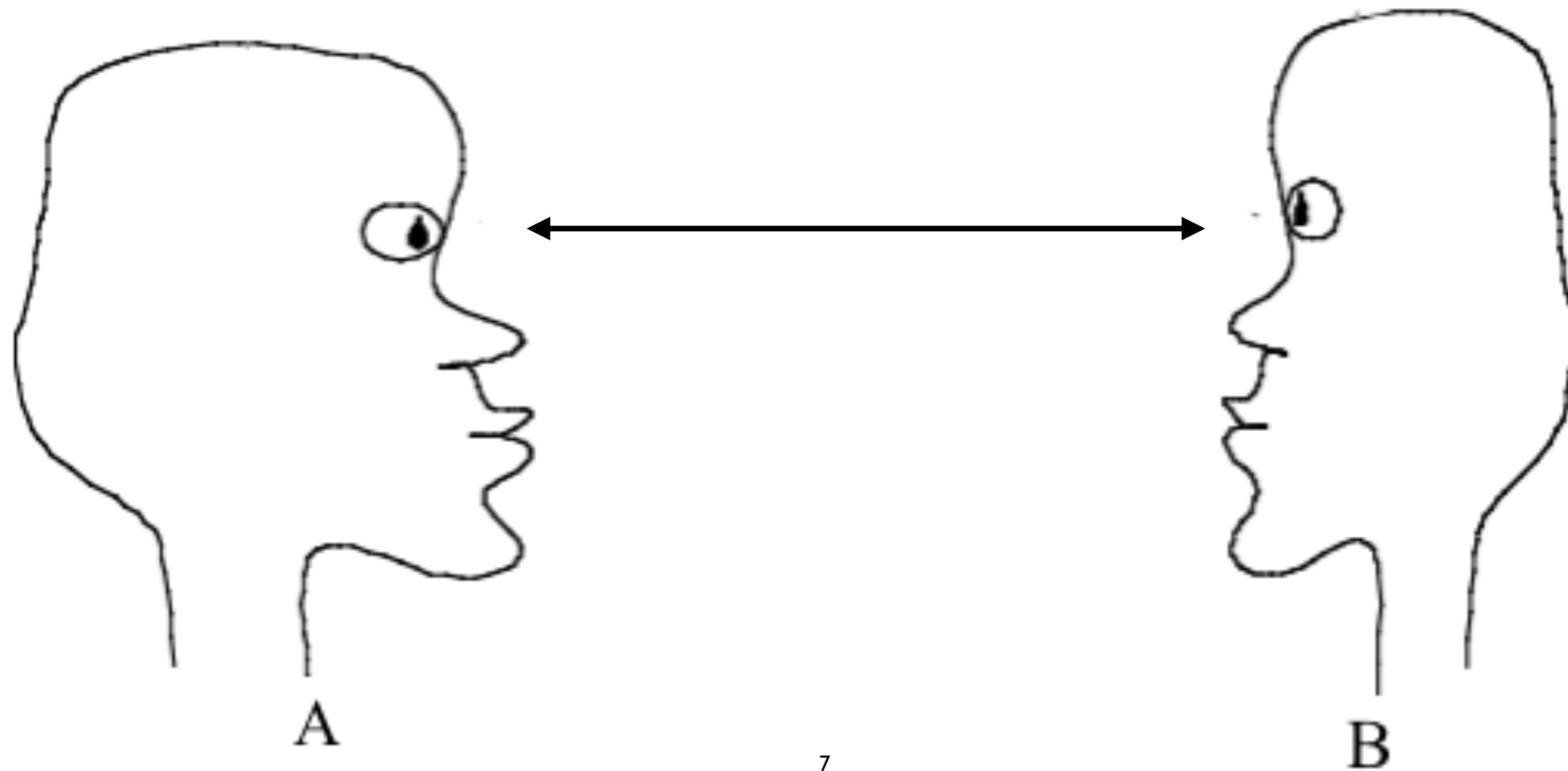
To you: Constant rate of change of distance with respect to time.
Changes in distance are proportional to changes in time.
Time varies continuously (smoothly).

Distance (from reference point) = speed (*elapsed time* - *reference time*) + *initial distance from reference point*

To Ann: Distance-traveled-in-one-time-unit

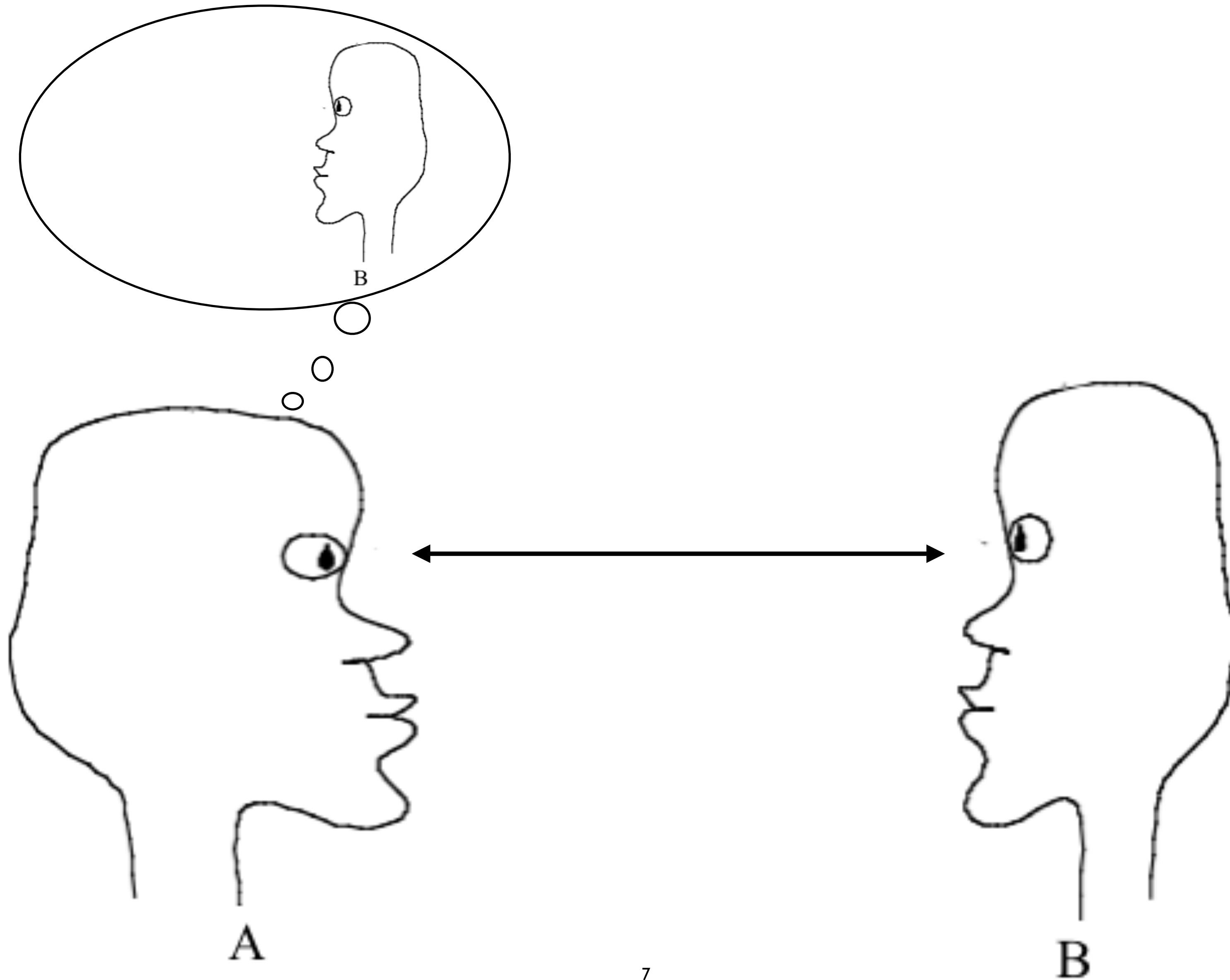
Ann understood that:
$$Total\ Time = \frac{Dist_1}{speed_1} + \frac{Dist_2}{speed_2}$$
 Comments?

Conversation



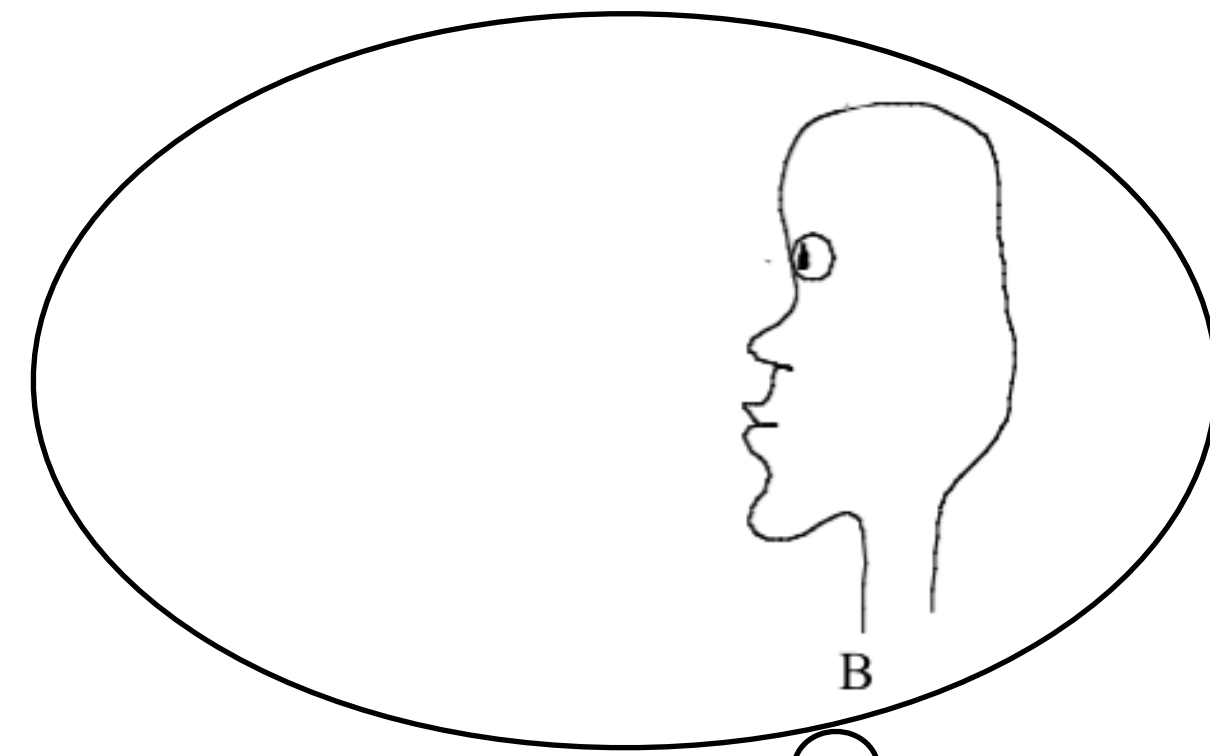
Conversation

First order model

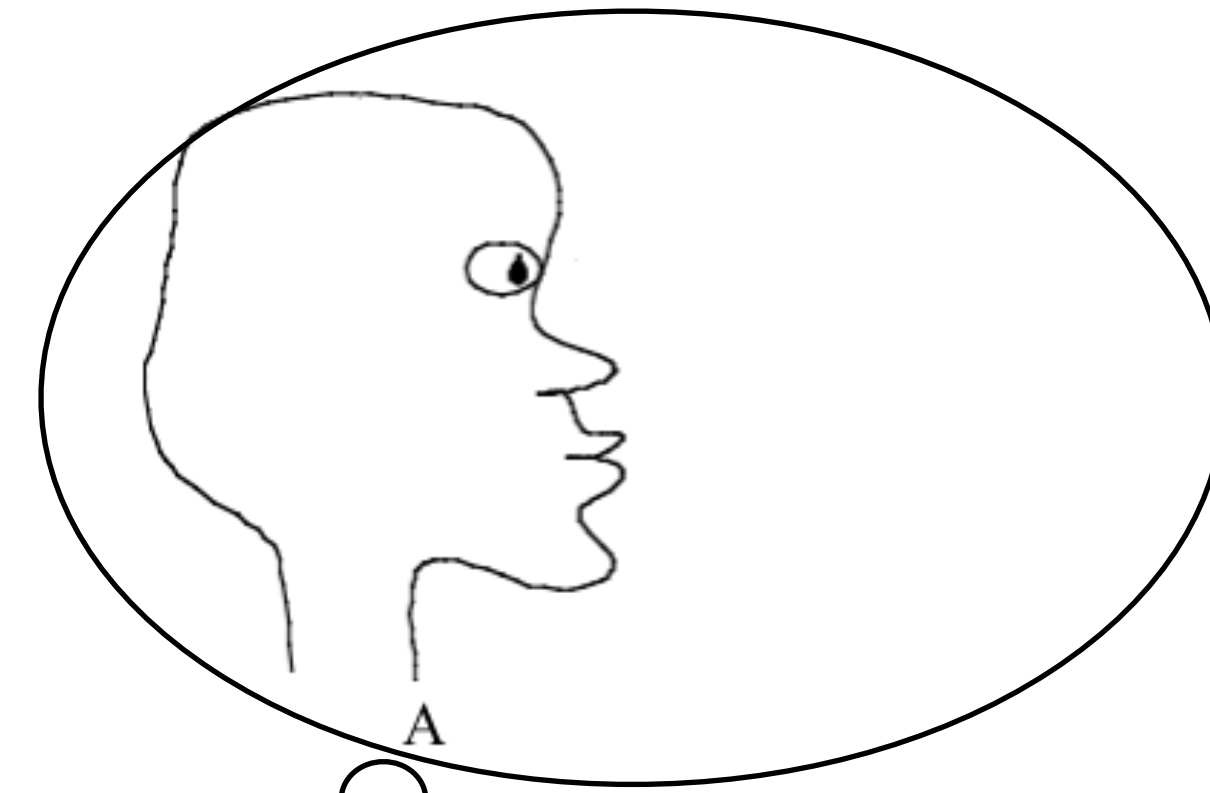


Conversation

First order model

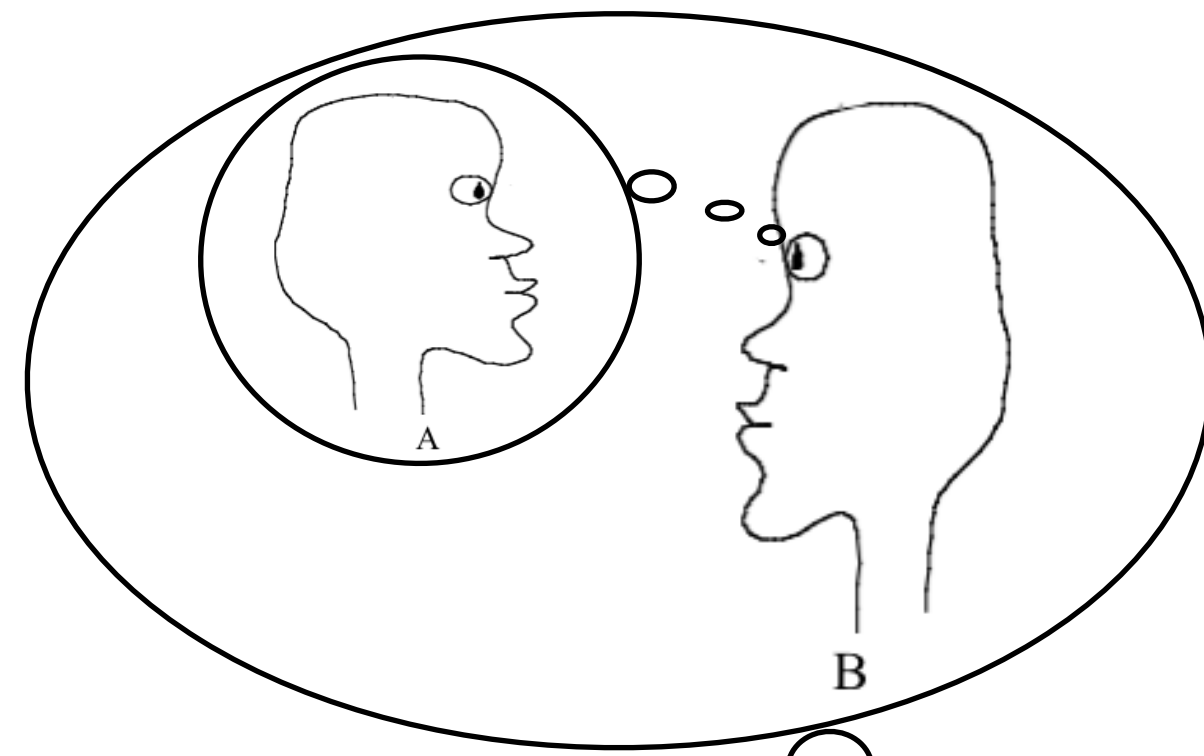


First order model

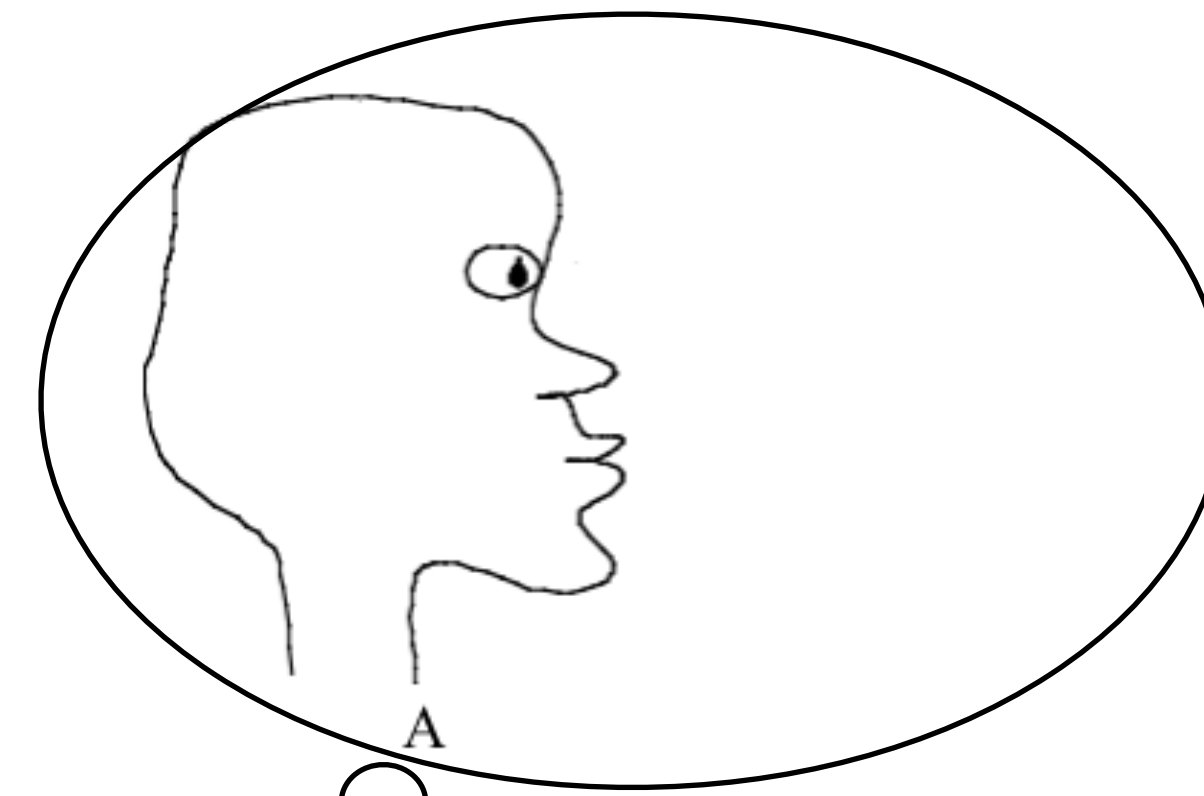


Conversation

Second order model

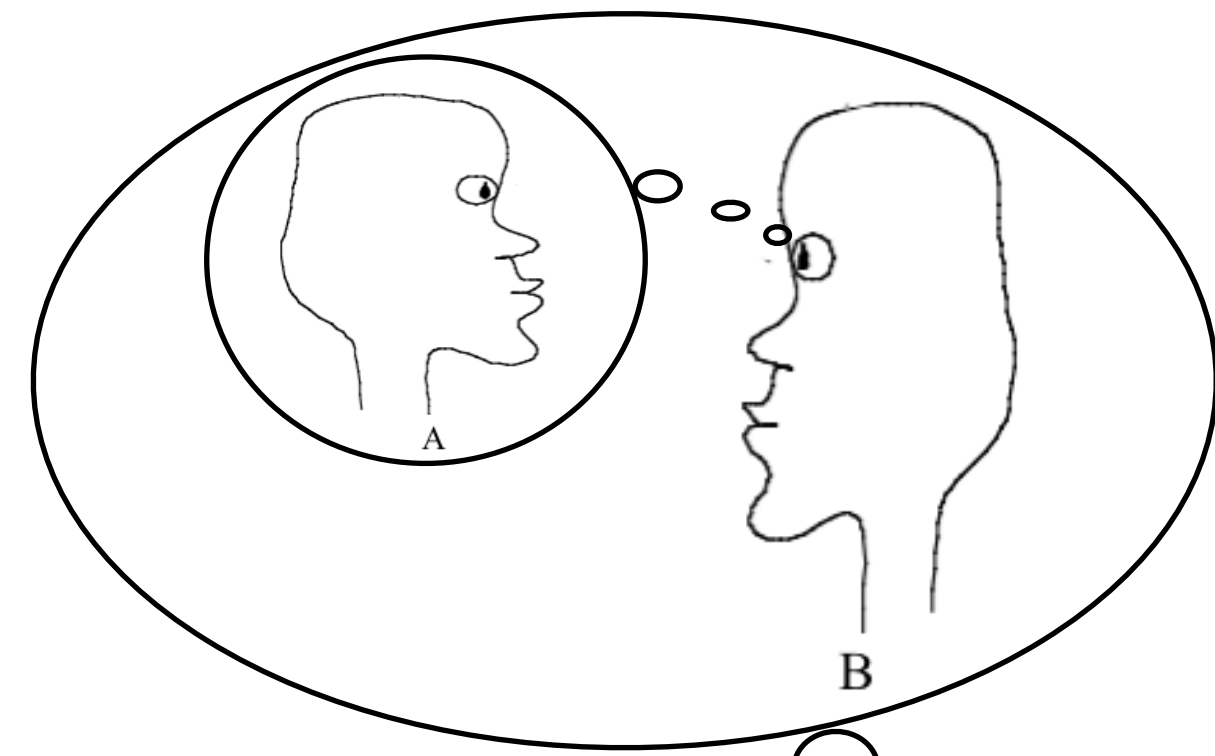


First order model

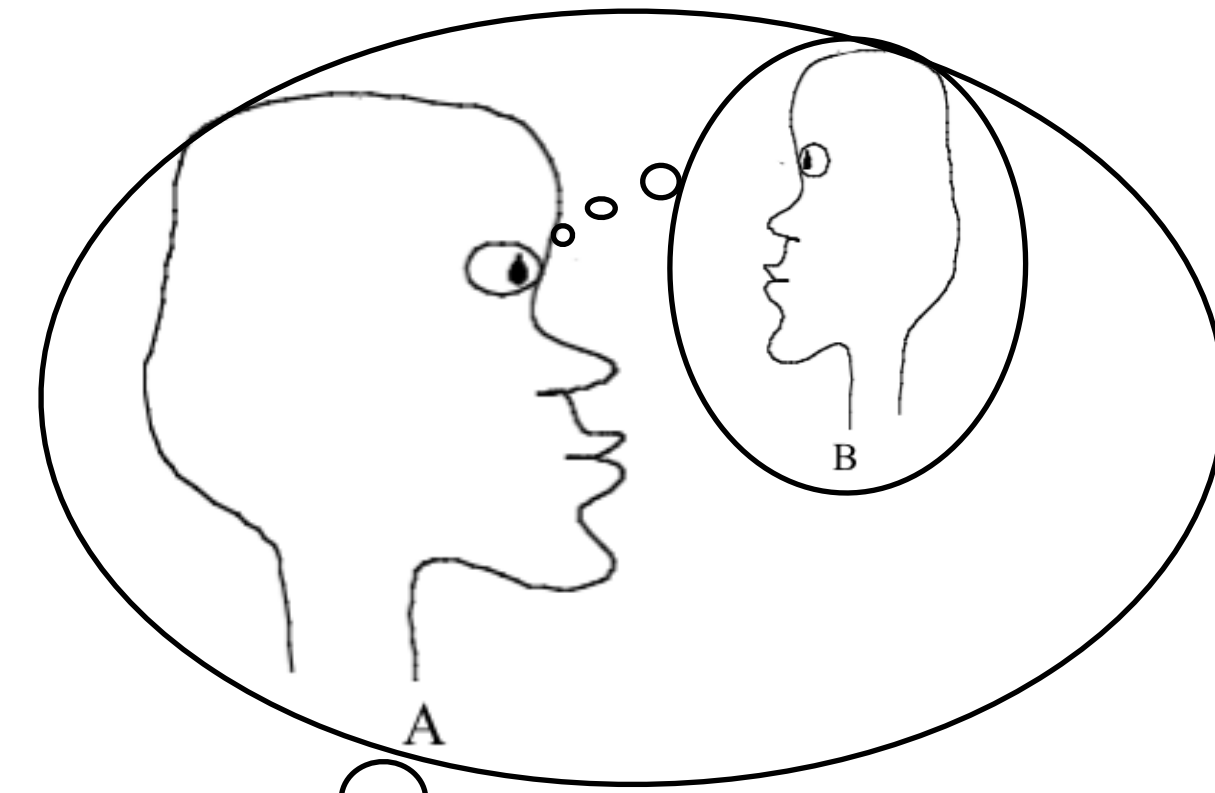


Reflective Conversation

Second order model



Second order model



Using the Construct of Reflective Conversation

- *You* take the stance that interlocutors are *attempting* to have a reflective conversation
 - Interpret each interlocutor as having in mind something they want the other to understand.
 - Interpret each interlocutor as listening to understand what the other intends given the meanings and ways of thinking the listener possesses
- *You* attempt to decide the level of model-of-the-other each participant has constructed or is attempting to construct
- Use *your* model of the conversation to attribute motives for each interlocutor's actions and to attribute interpretations a listener attributes to an actor.

Types of Notes (Strauss & Corbin)

- Observational note
 - A factual comment about something that happened. LITTLE OR NO INTERPRETATION.
- Theoretical Note
 - An explanation, in terms of constructs, of one or more observations
 - A comment that is potentially significant in regard to one or more actual or potential theoretical (explanatory) constructs
 - A comment about the body of explanations you've made to this moment
- Methodological Note
 - A comment about the method used by an author or someone involved in the study
 - A comment about *your* method of analysis